

Application No. 10/018,662

PLEASE AMEND THE ABSTRACT AS FOLLOWS:

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The invention concerns photovoltaic converters that work under high intensity light and provide high efficiency. The Said converters generate photovoltaic electricity at low costs, which is a very interesting for the photovoltaic industry. They can be also used in thermophotovoltaic systems and remote supply systems via optical fiber. The converter is characterized by the following features: a) its semiconductor layers are made of III-V compounds ~~III-V~~, b) it is manufactured by the use of photolithography, ~~is used to manufacture it~~ and c) its size ranges from a few tenths to tens of square millimeters. Other optoelectronic techniques may be used for manufacturing such as wire ~~welding~~ bonding, separation of the converters on ~~one same~~ a single wafer by sawing, scribing ~~point-cutting~~ and cleavage. Its design parameters are estimated by means of multivariable optimization. The situation in which the incident light has the shape of a cone and originates from a medium with any given refraction index is taken into account in the operating conditions.
